

Errors Corrected by the STIC Systems Branch

1600

Serial Number: 09/699,652A

CRF Processing Date: 11/4/2002
 Edited by: AC
 Verified by: _____ (STIC staff)

ENTERED

#14

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

RECEIVED

NOV 07 2002

TECH CENTER 1600/2900

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**



1600

RAW SEQUENCE LISTING

DATE: 11/04/2002

PATENT APPLICATION: US/09/699,652A

TIME: 17:50:29

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11042002\I699652A.raw

P. 6

```

3 <110> APPLICANT: Cahoon, Edgar B.
4   Cahoon, Rebecca E.
5   Kinney, Anthony J.
6   Rafalski, J. Antoni
8 <120> TITLE OF INVENTION: TRIACYLGLYCEROL LIPASES
10 <130> FILE REFERENCE: BB1168 US NA
12 <140> CURRENT APPLICATION NUMBER: 09/699,652A
13 <141> CURRENT FILING DATE: 2002-10-30
15 <150> PRIOR APPLICATION NUMBER: 60/083,688
16 <151> PRIOR FILING DATE: 1988-04-30
18 <150> PRIOR APPLICATION NUMBER: PCT/US99/09280
19 <151> PRIOR FILING DATE: 1999-04-29
21 <160> NUMBER OF SEQ ID NOS: 36
23 <170> SOFTWARE: Microsoft Office 97
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 751
27 <212> TYPE: DNA
28 <213> ORGANISM: Zea mays
30 <400> SEQUENCE: 1
31 gcacgagatc accggcaaga actactgcct caacagctcc gccgtcgacg tcttctctcaa 60
32 gtacgagccc cagccgacct ccacccaaac catggtccac ttcgctcaaa ccgtgcgcga 120
33 cggcgtgctg accaagtacg actacgtgct gccggagcgg aacatcgcca gctacggcca 180
34 ggccgagccg ccggtgtacc ggatgtccgg catccgcgcg agcttccgcg tcttctctcag 240
35 ctacggcgcc cgggactcgc tcgcccaccc cgcgcagctg cgcctcctcc tgcaggacct 300
36 ccggggccac gaccaggaca agctcacggt gcagtacctg gacaagttcg cgcacctcga 360
37 cttcatcatt ggcgtctgcg ccaaggacta cgtctacaag gacatgatcg acttctctaaa 420
38 ccgcttcaac tagtactagc atatataatt gcttcaatcg gtgtcgtctt cagccccagc 480
39 aggattagac aaaaaaaggg ggggacactg cagctcgtaa acgttgtcca tacagattat 540
40 cagaggtgaa aaccatacat gatgtaattt agcattagat agttaaaaca tggagctgcc 600
41 tcagtattga ggattgtcaa ctactctcca tcacagcagt aggtgtgatg tagaagagtg 660
42 attgtcacac tgttgtgtgt gcaaatattg aacacagtga ttactaatat aaaaaatact 720
43 cttgagttaa aaaaaaaaaa aaaaaaaaaa a                                     751
45 <210> SEQ ID NO: 2
46 <211> LENGTH: 143
47 <212> TYPE: PRT
48 <213> ORGANISM: Zea mays
50 <400> SEQUENCE: 2
51 His Glu Ile Thr Gly Lys Asn Tyr Cys Leu Asn Ser Ser Ala Val Asp
52   1           5           10           15
54 Val Phe Leu Lys Tyr Glu Pro Gln Pro Thr Ser Thr Lys Thr Met Val
55           20           25           30
57 His Phe Ala Gln Thr Val Arg Asp Gly Val Leu Thr Lys Tyr Asp Tyr
58           35           40           45

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60 Val Leu Pro Glu Arg Asn Ile Ala Ser Tyr Gly Gln Ala Glu Pro Pro
61      50                      55                      60
63 Val Tyr Arg Met Ser Gly Ile Pro Pro Ser Phe Pro Leu Phe Leu Ser
64 65                      70                      75                      80
66 Tyr Gly Gly Arg Asp Ser Leu Ala Asp Pro Ala Asp Val Arg Leu Leu
67                      85                      90                      95
69 Leu Gln Asp Leu Arg Gly His Asp Gln Asp Lys Leu Thr Val Gln Tyr
70      100                      105                      110
72 Leu Asp Lys Phe Ala His Leu Asp Phe Ile Ile Gly Val Cys Ala Lys
73      115                      120                      125
75 Asp Tyr Val Tyr Lys Asp Met Ile Asp Phe Leu Asn Arg Phe Asn
76      130                      135                      140
78 <210> SEQ ID NO: 3
79 <211> LENGTH: 647
80 <212> TYPE: DNA
81 <213> ORGANISM: Catalpa sp.
83 <400> SEQUENCE: 3
84 ttatctttca ggagagattt ttgtttgaat gctccccccg ttgagctttt tgtggaaaat 60
85 taccctccat cttccgtgaa ttgagacccc tgtccatatg gctcaaaactg tccgatatgg 120
86 gatcctaccc aaatacgact acggcaatcc cagcttcaac ttggcccatt atggtgaatc 180
87 cagacctccc gtttaacgatt tatccaagat tcccctcgac attccgctct tccaaagcta 240
88 tggaggacaa gatgcattgt cggatgttaa ggatgtcgag acattgctcg atagtctcaa 300
89 gttacacgat gtggataagc tgcattgtgca gtatatcaag gattatgctc atgccgactt 360
90 cattatcgga gttactgcaa aagatatagt ttataatcag attgtaactt ttttcagaaa 420
91 ccaggcttga gaggttcttg attttggagt gcttttgctg tgagaatgca acagcttggt 480
92 ccactcttgt tgaatgtgaa taagccattt ccgagagatt taatggctgg taaagcttat 540
93 tagtttactc atagatacat gtaagaagca acccgataca tagtttgaat cctttatctc 600
94 gaaaagggtat tgcattctct cttctacgtc aaaaaaaaaa aaaaata 647
96 <210> SEQ ID NO: 4
97 <211> LENGTH: 116
98 <212> TYPE: PRT
99 <213> ORGANISM: Catalpa sp.
101 <400> SEQUENCE: 4
102 Ile Glu Thr Pro Val His Met Ala Gln Thr Val Arg Tyr Gly Ile Leu
103 1      5      10      15
105 Pro Lys Tyr Asp Tyr Gly Asn Pro Ser Phe Asn Leu Ala His Tyr Gly
106      20      25      30
108 Glu Ser Arg Pro Pro Val Tyr Asp Leu Ser Lys Ile Pro Leu Asp Ile
109      35      40      45
111 Pro Leu Phe Leu Ser Tyr Gly Gln Asp Ala Leu Ser Asp Val Lys
112      50      55      60
114 Asp Val Glu Thr Leu Leu Asp Ser Leu Lys Leu His Asp Val Asp Lys
115 65      70      75      80
117 Leu His Val Gln Tyr Ile Lys Asp Tyr Ala His Ala Asp Phe Ile Ile
118      85      90      95
120 Gly Val Thr Ala Lys Asp Ile Val Tyr Asn Gln Ile Val Thr Phe Phe
121      100      105      110
123 Arg Asn Gln Ala
124      115

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RAW SEQUENCE LISTING

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11042002\I699652A.raw

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126 <210> SEQ ID NO: 5
127 <211> LENGTH: 705
128 <212> TYPE: DNA
129 <213> ORGANISM: Catalpa sp.
131 <220> FEATURE:
132 <221> NAME/KEY: unsure
133 <222> LOCATION: (526)
134 <223> OTHER INFORMATION: n = A, C, G, or T
136 <220> FEATURE:
137 <221> NAME/KEY: unsure
138 <222> LOCATION: (561)
139 <223> OTHER INFORMATION: n = A, C, G, or T
141 <220> FEATURE:
142 <221> NAME/KEY: unsure
143 <222> LOCATION: (585)
144 <223> OTHER INFORMATION: n = A, C, G, or T
146 <220> FEATURE:
147 <221> NAME/KEY: unsure
148 <222> LOCATION: (593)
149 <223> OTHER INFORMATION: n = A, C, G, or T
151 <220> FEATURE:
152 <221> NAME/KEY: unsure
153 <222> LOCATION: (664)
154 <223> OTHER INFORMATION: n = A, C, G, or T
156 <220> FEATURE:
157 <221> NAME/KEY: unsure
158 <222> LOCATION: (679)
159 <223> OTHER INFORMATION: n = A, C, G, or T
161 <400> SEQUENCE: 5
162 gcacgagcca acagcttccct aaatttagct cttctaatcc ttctctcatt atcactactc 60
163 ctacctcadc aatcattcgc ctccagccgc cgccgttttc ttccgcagaa tgatgtcggt 120
164 cttccgcccgg acggcggttg ctccaccgcc gtaactgtac acggttataa atgccaagaa 180
165 tttgaagtaa cgactgatga tggctatata ttaagcgtgc agaggattct ggagggccgg 240
166 gccggaggag gagggccgaa gcgggccgcc gttctgctgc aacatggggg tcttgtggac 300
167 gggatgacgt ggctggtgaa tggaccgaa caatctttgg cgatgatatt ggctgacaat 360
168 gggttcgacg tctggatttc taacataaga ggaactaggt ttagtcgtcg tcatgtcagc 420
169 cttgatccta ccgatcctga atattgggat tgggcatggg acgatcttgg tgaccacga 480
W--> 170 cttaccatcc ctgatcgagt tagtggtcag acaaacgggt cagaanacac actacatagg 540
W--> 171 gcaatccatg gggaacttta ntagctttgg gatcactttt agganggaaa cangttggca 600
172 gggtaaatcg gctgtatggt aagccaattg gctaacgagt catatgcaac tgctctcgag 660
W--> 173 ttgnctagca gatccttgnt ggggaacaca cgatcttggc ctgcg 705
175 <210> SEQ ID NO: 6
176 <211> LENGTH: 157
177 <212> TYPE: PRT
178 <213> ORGANISM: Catalpa sp.
180 <400> SEQUENCE: 6
181 Ala Arg Ala Asn Ser Phe Leu Asn Leu Ala Leu Leu Ile Leu Leu Ser
182 1 5 10 15
184 Leu Ser Leu Leu Leu Pro His Gln Ser Phe Ala Ser Ser Arg Arg Arg

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RAW SEQUENCE LISTING

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11042002\I699652A.raw

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185          20          25          30
187 Phe Leu Pro Gln Asn Asp Val Val Leu Pro Pro Asp Gly Val Cys Ser
188          35          40          45
190 Thr Ala Val Thr Val His Gly Tyr Lys Cys Gln Glu Phe Glu Val Thr
191          50          55          60
193 Thr Asp Asp Gly Tyr Ile Leu Ser Val Gln Arg Ile Leu Glu Gly Arg
194 65          70          75          80
196 Ala Gly Gly Gly Gly Pro Lys Arg Pro Pro Val Leu Leu Gln His Gly
197          85          90          95
199 Val Leu Val Asp Gly Met Thr Trp Leu Val Asn Gly Pro Glu Gln Ser
200          100          105          110
202 Leu Ala Met Ile Leu Ala Asp Asn Gly Phe Asp Val Trp Ile Ser Asn
203          115          120          125
205 Ile Arg Gly Thr Arg Phe Ser Arg Arg His Val Ser Leu Asp Pro Thr
206          130          135          140
208 Asp Pro Glu Tyr Trp Asp Trp Ala Trp Asp Asp Leu Gly
209 145          150          155

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211 <210> SEQ ID NO: 7

212 <211> LENGTH: 859

213 <212> TYPE: DNA

214 <213> ORGANISM: Zea mays

216 <220> FEATURE:

217 <221> NAME/KEY: unsure

218 <222> LOCATION: (46)

219 <223> OTHER INFORMATION: n = A, C, G, or T

221 <220> FEATURE:

222 <221> NAME/KEY: unsure

223 <222> LOCATION: (231)

224 <223> OTHER INFORMATION: n = A, C, G, or T

226 <400> SEQUENCE: 7

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W--> 227 aaagcaaacac acggcgggaca tgggtgcgccc agggaaaagcg cttgcngcgc cccagctcct 60
228 cctcctcgtg ttctctcgcc tctagccgg tggagccgc gcatccccgc ccacagacgc 120
229 gctacgcgc gtctccccgc gcgcgggggc cgggtggcctc tgccagcagc tgctcctgcc 180
W--> 230 gcagggttacc cgtgcaccga gcacaccgtt caaacggatg atggctttct nttgtctctt 240
231 cagcatattc cacatggcag aaatggaatt gcagataata ctggacctcc agtttttctt 300
232 cagcacggtc ttttccaggg tggagataca tggttcataa actccaatga acaatcactt 360
233 ggatataatc ttgctgacaa tggttttgat gtttgggtcg gaaatgttcg tggcacacgt 420
234 tggagtaaag gccactctac tctctctgtt catgataagc ttttctggga ttggagttgg 480
235 caagaccttg ctgaatacga cgttttggca atgttaagct atgtatatac agttgcacag 540
236 tccaaaattt tgtatgtggg acattcacag ggaactatca tgggtttggc tgcgtttaca 600
237 atgcctgaaa cagtaaagat gataagctct gctgcgcttc tttgtcccat ttcttacctt 660
238 gatcacgtca gtgctagttt tgttcttaga gcagttgcca tgcatttga tgagatgctt 720
239 gttattatgg gcatccatca gttgaacttc cggagcgata tgggtgtaca gatattagat 780
240 tgcgtgtgcg atgatgaaca tttggactgc aacgatctgt tatcttcaat aacagtcaaa 840
241 actgttgttc aatcatctc 859

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243 <210> SEQ ID NO: 8

244 <211> LENGTH: 286

245 <212> TYPE: PRT

246 <213> ORGANISM: Zea mays

RAW SEQUENCE LISTING

DATE: 11/04/2002

PATENT APPLICATION: US/09/699,652A

TIME: 17:50:29

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11042002\I699652A.raw

248 <220> FEATURE:

249 <221> NAME/KEY: UNSURE

250 <222> LOCATION: (16)

251 <223> OTHER INFORMATION: ANY AMINO ACID

253 <400> SEQUENCE: 8

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W--> 254 Lys Ala Asn Asn Gly Gly His Gly Ala Pro Arg Lys Ser Ala Cys Xaa
      255   1           5           10           15
      257 Ala Pro Ala Pro Pro Arg Val Pro Leu Pro Pro Ser Arg Trp Ser
      258           20           25           30
      260 Pro Arg Ile Pro Ala His Arg Arg Ala Thr Pro Arg Leu Pro Ala Arg
      261           35           40           45
      263 Gly Gly Arg Trp Pro Leu Pro Ala Ala Ala Pro Ala Ala Gly Tyr Pro
      264           50           55           60
      266 Cys Thr Glu His Thr Val Gln Thr Asp Asp Gly Phe Leu Leu Ser Leu
      267           65           70           75           80
      269 Gln His Ile Pro His Gly Arg Asn Gly Ile Ala Asp Asn Thr Gly Pro
      270           85           90           95
      272 Pro Val Phe Leu Gln His Gly Leu Phe Gln Gly Gly Asp Thr Trp Phe
      273           100          105          110
      275 Ile Asn Ser Asn Glu Gln Ser Leu Gly Tyr Ile Leu Ala Asp Asn Gly
      276           115          120          125
      278 Phe Asp Val Trp Val Gly Asn Val Arg Gly Thr Arg Trp Ser Lys Gly
      279           130          135          140
      281 His Ser Thr Leu Ser Val His Asp Lys Leu Phe Trp Asp Trp Ser Trp
      282 145           150          155          160
      284 Gln Asp Leu Ala Glu Tyr Asp Val Leu Ala Met Leu Ser Tyr Val Tyr
      285           165          170          175
      287 Thr Val Ala Gln Ser Lys Ile Leu Tyr Val Gly His Ser Gln Gly Thr
      288           180          185          190
      290 Ile Met Gly Leu Ala Ala Phe Thr Met Pro Glu Thr Val Lys Met Ile
      291           195          200          205
      293 Ser Ser Ala Ala Leu Leu Cys Pro Ile Ser Tyr Leu Asp His Val Ser
      294           210          215          220
      296 Ala Ser Phe Val Leu Arg Ala Val Ala Met His Leu Asp Glu Met Leu
      297 225           230          235          240
      299 Val Ile Met Gly Ile His Gln Leu Asn Phe Arg Ser Asp Met Gly Val
      300           245          250          255
      302 Gln Ile Leu Asp Ser Leu Cys Asp Asp Glu His Leu Asp Cys Asn Asp
      303           260          265          270
      305 Leu Leu Ser Ser Ile Thr Val Lys Thr Val Val Gln Ser Ser
      306           275          280          285

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308 <210> SEQ ID NO: 9

309 <211> LENGTH: 509

310 <212> TYPE: DNA

311 <213> ORGANISM: Zea mays

313 <220> FEATURE:

314 <221> NAME/KEY: unsure

315 <222> LOCATION: (162)

316 <223> OTHER INFORMATION: n = A, C, G, or T

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/699,652A

DATE: 11/04/2002
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Input Set : A:\PTO.AMC.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 526, 561, 585, 593, 664, 679
Seq#:7; N Pos. 46, 231
Seq#:8; Xaa Pos. 16
Seq#:9; N Pos. 162, 277, 284, 290, 295, 386, 406, 413, 443, 468, 484, 489
Seq#:10; Xaa Pos. 52, 90, 92, 96
Seq#:11; N Pos. 8, 20, 229, 236, 241, 249, 268
Seq#:12; Xaa Pos. 76, 78, 80, 83, 89
Seq#:15; N Pos. 12, 24, 29, 33, 43, 78, 182, 265, 300, 302, 306, 347, 351, 367, 370, 380
Seq#:15; N Pos. 386
Seq#:16; Xaa Pos. 8, 10, 11, 15, 61
Seq#:23; N Pos. 226, 315, 462, 1306, 1349, 1359, 1368, 1373
Seq#:24; Xaa Pos. 50, 80, 129
Seq#:25; N Pos. 601
Seq#:26; Xaa Pos. 45
Seq#:27; N Pos. 7, 15, 27, 38, 50, 94, 99, 103, 105, 117

VERIFICATION SUMMARY

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11042002\I699652A.raw

L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:480
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:540
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:660
L:227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:180
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:120
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:240
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:360
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:420
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:480
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:48
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:80
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:180
L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:240
L:524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:64
L:527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:80
L:737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:60
L:740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:180
L:741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:240
L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:300
L:743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:360
L:771 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:48
L:1124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:180
L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:300
L:1128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:420
L:1142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:1260
L:1143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:1320
L:1176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:48
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:64
L:1191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:128
L:1245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:600
L:1279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:32
L:1380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:1381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:60